

Work Order ID 86105

June-20-12 2:51:02 PM

86105

Page 1

Item ID: D3350-041

Accept

N900040100

Setup Start ***NS1***

Revision ID:

Stop ***NS2***

Item Name: Strut Assembly

Start Date: 20/06/2012 Start Qty: 4.00

4

Cust Item ID:

Required Date: 04/07/2012 Req'd Qty: 4.00

4

Customer:

Reference:

Approvals: Process Plan: *MLJ*

Date: *12/06/20* Tooling:

Date:

Run Start ***NR1***

QC:

Date: SPC (Y/N):

Date:

Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr	Revision Nbr								
D3350	Rev A								
100		0.00							
100	BAND SAW								
Bandsaw	Memo	0.00							
Jeaspa Bandsaw	Cut blank: 0.750" x 0.750" x 15.00" long								
				<i>12-06-27</i>					
110		0.00							
110	HAAS CNC VERTICAL MACHINING #1								
HAAS 1	Memo	0.00							
HAAS CNC vertical machine #1	Machine D3350-1 as per Folio FA496 and Dwg D3350Identify as D3350-1								
	<i>Manual Mill</i>			<i>12-06-27</i>					
120		0.00							
120	QC2- Inspect parts off machine FAI/FAIB								
QC	Memo	0.00							
Quality Control				<i>12-06-27</i>					

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Work Order ID 86105

June-20-12 2:51:02 PM

86105

Page 2

Item ID: D3350-041

Accept

N900040100

Setup Start ***NS1***

Revision ID:

Stop ***NS2***

Item Name: Strut Assembly

Start Date: 20/06/2012 Start Qty: 4.00

4

Cust Item ID:

Required Date: 04/07/2012 Req'd Qty: 4.00

4

Customer:

Reference:

Approvals:

Process Plan:

Date:

Tooling:

Date:

Run Start ***NR1***

QC:

Date:

SPC (Y/N):

Date:

Stop ***NR2***

Sequence ID/
Work Center ID

Operation
Description

Set Up/
Run Hours

Tool ID Tool #

Plan
Code

Accept
Qty

Reject
Qty

Reject
Number

Insp.
Stamp

130

QC8- Inspect parts - second check

0.00

SL 12-06-28

(4)

130

QC

Memo

0.00

Quality Control

140

Small Fab

0.00

140

Small Fab

Memo

0.00

12-06-27

Small Fab

Tumble and Deburr

150

Chemical Conversion Coat per QSI005 4.1

0.00

150

HandFinish

Memo

0.00

4 7/6 12-6-27

Hand Finishing

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Work Order ID 86105

June-20-12 2:51:02 PM

86105

Page 3

Item ID: D3350-041

Accept

N900040100

Setup Start

NS1

Revision ID:

Item Name: Strut Assembly

Stop

NS2

Start Date: 20/06/2012 Start Qty: 4.00

4

Cust Item ID:

Required Date: 04/07/2012 Req'd Qty: 4.00

4

Customer:

Reference:

Approvals:

Process Plan:

Date:

Tooling:

Date:

Run Start

NR1

QC:

Date:

SPC (Y/N):

Date:

Stop

NR2

Sequence ID/
Work Center ID

Operation
Description

Set Up/
Run Hours

Tool ID Tool #

Plan
Code

Accept
Qty

Reject
Qty

Reject
Number

Insp.
Stamp

160

QC3- Inspect Part Finish

0.00

160

QC

Memo

0.00

Quality Control

170

Small Fab

0.00

170

Small Fab

Memo

0.00

Small Fab

Assemble as per Dwg D3350. Identify as D3350-041 and batch number using a fine point permanent marker

180

QC5- Inspect part completeness to step on W/O

0.00

180

QC

Memo

0.00

Quality Control

JS 12/06/29

FF 12-06-29

8,764/30

(see)

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Work Order ID 86105

June-20-12 2:51:02 PM

86105

Page 4

Item ID: D3350-041

Accept

N900040100

Setup Start ***NS1***

Revision ID:

Stop ***NS2***

Item Name: Strut Assembly

Start Date: 20/06/2012 Start Qty: 4.00

4

Cust Item ID:

Required Date: 04/07/2012 Req'd Qty: 4.00

4

Customer:

Reference:

Approvals: Process Plan: _____

Date: _____

Tooling: _____

Date: _____

Run Start ***NR1***

QC: _____

Date: _____

SPC (Y/N): _____

Date: _____

Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
190	White Gloss(Ref:4.3.5.2) per QSI005 4.3-Steel	0.00							
190									
Powdercoat									
Powder Coating									
	Memo								
	START TIME: 11:20	0.00							
	FINISH TIME: 11:50								
	OVEN TEMPERATURE:								
200	QC3- Inspect Part Finish	0.00							
200									
QC									
Quality Control	Memo								
210	Identify as per dwg & Stock Location: ST 271	0.00							
210									
Packaging									
Packaging	Memo								

4X ~~✓~~ 12/07/03

4 ~~Q~~ 12/07/03

4X ~~SP~~ 12-7-3

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Work Order ID 86105

June-20-12 2:51:02 PM

86105

Page 5

Item ID: D3350-041

Accept

N900040100Setup Start ***NS1***

Revision ID:

Stop ***NS2***

Item Name: Strut Assembly

Start Date: 20/06/2012 Start Qty: 4.00

4

Cust Item ID:

Required Date: 04/07/2012 Req'd Qty: 4.00

4

Customer:

Reference:

Approvals:

Process Plan:

Date:

Tooling:

Date:

Run Start ***NR1***

QC:

Date:

SPC (Y/N):

Date:

Stop ***NR2***Sequence ID/
Work Center IDOperation
DescriptionSet Up/
Run Hours

Tool ID Tool #

Plan
CodeAccept
QtyReject
QtyReject
NumberInsp.
Stamp

220

QC21- Final Inspection - Work Order Release

0.00

220

QC

Memo

0.00

Quality Control

12/7/4

ME
12-07-03

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Picklist Print

June-20-12 2:51:06 PM

Page 1

Work Order ID: 86105

86105

Parent Item: D3350-041

D3350-041

Parent Item Name: Strut Assembly

Start Date: 20/06/2012

Required Date: 04/07/2012

Start Qty: 4.00

Required Qty: 4.00

Comments: IPP: B05.07.11 Powder Coat now done after assembly KJ/JLM

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
MS21042L3		Purchased	No			110	Each	1,654.000	2	8			

MS21042L3

Nut

**

(4) FF 12-06-29

Location	Loc Qty	Loc Code
ST300	1,210,25	
117885	32	
119017	816	
119075	138	
121444	668	

AN3-12A

Purchased

No

170

Each

69.0000

2

8

AN3-12A

Bolt

**

(4) FF 12-06-29

Location	Loc Qty	Loc Code
ST351	69	
114536	1	
119641	18	
121825	50	

AN960JD10

NAS1149D0363J

Purchased

No

170

Each

0.0000

4

16

AN960JD10

Washer

D2324-5

Manufactured

No

170

Each

0.0000

2

8

D2324-5

Strap

**

(4) FF 12-06-29

121524

86327

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Picklist Print

June-20-12 2:51:06 PM

Page 2

Work Order ID: 86105

86105

Parent Item: D3350-041

D3350-041

Parent Item Name: Strut Assembly

Start Date: 20/06/2012

Required Date: 04/07/2012

Start Qty: 4.00

Required Qty: 4.00

M6061T6B0.750X00.75
0

Purchased No

170 f

34.3410 1.2604 5.306947

M6061T6B0 750X00 750

**

6061-T6 Bar .750 x .750

Location

Loc Qty

Loc Code

MAT002

8.26

114993

4.58

119346

3.68

MAT003

26.081

119801

2.081

121836

24

5.4 12-06-27

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

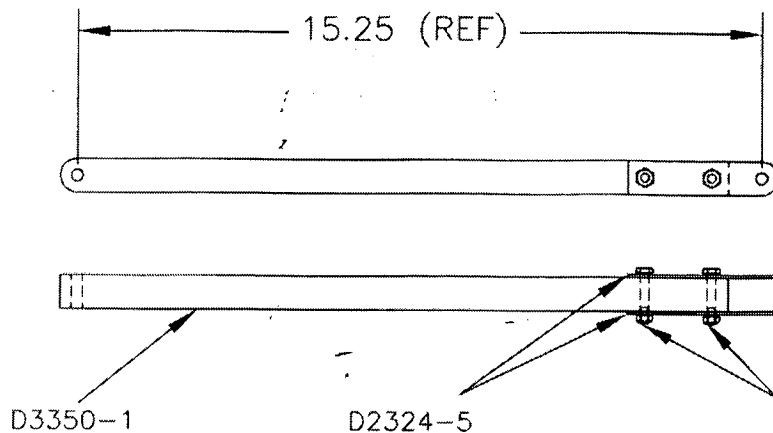
Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries



DESIGN PH	DRAWN BY PH	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
CHECKED PH	APPROVED PH	DRAWING NO. D3350	REV. A SHEET 1 OF 1
DATE 04.11.12	TITLE STRUT		SCALE 1:4
A	04.11.12	NEW ISSUE	

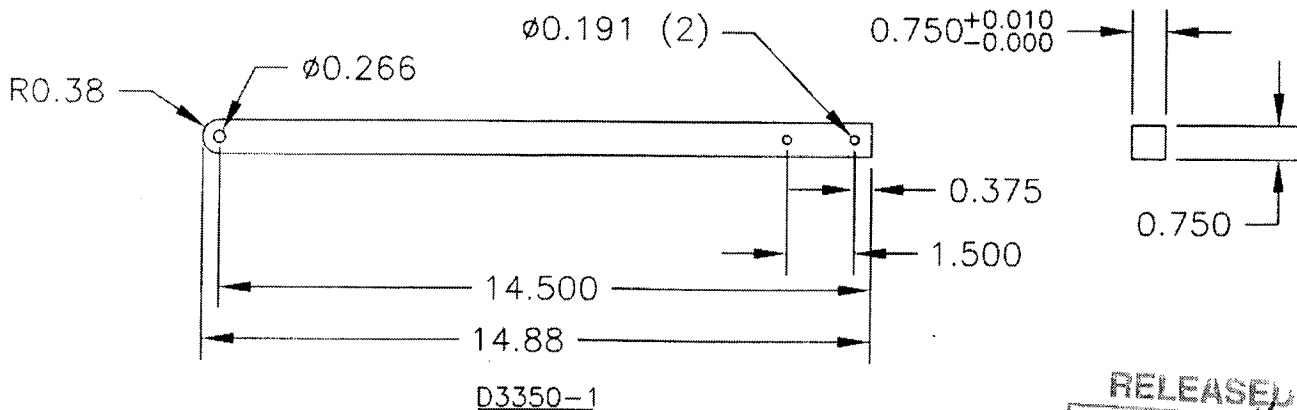


SHOP COPY
RETURN TO
ENGINEERING
UNCONTROLLED E.I.
SUBJECT TO AMEND.
WITHOUT NOTICE
WORK ORDER
NO. 26105 M.C.
12/06/2012

AN3-12A BOLT (1)
AN960JD10 WASHER (2)
MS21042L3 NUT (1)
(TYP 2 PLACES)

D3350-041 STRUT ASSEMBLY

- 1) IDENTIFY WITH DART P/N D3350-041 USING FINE POINT PERMANENT INK MARKER



RELEASED

04.12.16

D3350-1

- 1) MATERIAL: 6061-T6/T651 BAR (QQ-A-200/8) 0.75 X 0.75
(REF DART SPEC. M6061T6B0.750X00.750)
- 2) BREAK ALL SHARP EDGES 0.005 TO 0.015
- 3) ALL DIMENSIONS ARE IN INCHES
- 4) ALL TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED
- 5) FINISH: ACID ETCH AND ALODINE PER DART QSI 005 4.1
POWDERCOAT WHITE (4.3.5.1) PER DART QSI 005 4.3

Copyright © 2004 by DART AEROSPACE LTD

THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries